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MACHINE TOOL PLANTS CONVERTING
TO HIGH-SPEED OPERATION

REORGANIZES FOR NEW PRODUCTION PROCESS -- Izvestiya, No 172, 2, Jul 49

The "Stankolit" Plant in Moscow has been reorganizing its production in connection with the postwar conversion in machine-tool building from universal, large-series machine tools to small-series, special and standardized machine-tools, and to assembly-line production. This required radical changes in the plant organization, which was formerly set up for large-series metal casting. It was necessary to improve the quality of casting and continually increase the output in accordance with the growing demands of machine-tool building.

During the third quarter of 1948, the plant reached a production volume planned for the last year of the Five-Year Plan. The plant considerably increased the volume of casting without making excessive capital investments. This was comparatively easy to do in the case of light and medium casting, but it was necessary to change the technological process in the case of heavy casting. The old method of casting large metal parts in dry-sand molds was revised. After a great deal of experimenting, favorable results were obtained by casting a number of large parts in green-sand molds. This made it possible to convert the production of large-series, heavy machine parts to assembly-line methods by machine molding and by assembling and casting on a conveyor. A new shop was built for heavy, green-sand casting. The production cycle was shortened by 50 percent and it was possible to release a large area for the production of small-series and individual casting.

At present green-sand molding comprises up to 60 percent of the plant's production and it is to be further increased.

The production of cores for heavy casting requires a large working area, highly trained workers and many manual operations. As a result, this usually produces a bottleneck in foundry shops. The plant has now introduced a new technological process in the production of cores by applying the principles of advanced automobile and tractor technology.

- 1 -

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Some of the highly labor-consuming operations at the plant, such as knocking out the cast from the mold box and knocking out the cores from the casts, have now been mechanized. Mechanization and assembly-line methods are also being introduced in the cleaning shop of the foundry. Casts are transported on roller conveyers.

The plant has recently mastered the production of structural steel casting, including highly complex casts. During the first 6 months of 1949, the plant released 1,582,000 rubles, mainly by shortening the production cycle in the casting of parts. Cutting down the inventory of basic and auxiliary materials helped to accelerate the turnover of working capital. Rigid norms were established for the amount of materials held in stock and the norms for consumption of materials were reduced. The "Stankolit" Plant now completely satisfies the basic requirements in steel casting, which are standard for the Moscow group of machine-tool building plants. -- A. Ryabtsev, Director, "Stankolit" Plant

TO PRODUCE HIGH-SPEED MACHINE TOOLS -- Moskovskiy Bol'shevik, No 169, 20 Jul 49

The Moscow "Krasnyy proletariy" Plant exceeded its 6-month production program, producing 100 machine tools above plan. The plant has converted its machine tools to high-speed operations. The average speed of machine tools installed in the plant is almost 100 percent greater than last year. Turnover of working capital has been accelerated 19 days and 8,710,000 rubles of working capital released during 1949.

The plant is now converting to mass production of high-speed machine tools. All shops are now engaged in this operation. The first high-speed machine tools will be produced this month.

ROLLER-BEARINGS PLANT TOOK PRIZES -- Sovetskaya Sibir', No 115, 12 Jun 49

The Novosibirsk Roller Bearings Plant took first place among the city's enterprises in the April competition and was awarded the Transferable Red Banner of the Novosibirsk City Committee VKP(b) and the city executive committee. In May, the plant continued its high rate of production and exceeded the state plan in all respects.

HIGH-SPEED METAL CUTTING PROMOTED -- Sovetskaya Sibir', No 128, 1 Jul 49

The Novosibirsk Committee on High-Speed Metal Cutting has organized two seminars in the city's enterprises. The committee is now registering trainees for a course in metal cutting which is scheduled to take 200 hours, and is also organizing a short seminar of 32 hours. Consultations are also available twice weekly. Several plants, with the advice of the committee's members, have developed plans for introducing high-speed methods. An automatic machine has been converted to the method for the first time in the city. The committee and enterprises have done much to introduce electric grinding and finishing of cutting tools.

MOSCOW MACHINE-TOOL INSTITUTE OPENS ENROLLMENT -- Vechernyaya Moskva, No 172, 21 Jul 49

The Machine-Tool and Tool Institute imeni I. V. Stalin is enrolling students in beginning and advanced courses in the following departments: machine-tool design, tools, instrument building, and technology.

- 2 -

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The institute trains mechanical engineers in the following specialities: metal-cutting machines, tool production, precision instruments, optical-mechanical instruments, technology of machine building, machine and pressure treatment of metal, machines and the technology of foundry production, production of medical instruments and equipment.

The course runs for 5½ years. Entrance requirements are the same as for all higher technical educational institutions. Application are accepted until 31 July.

Address: Moskva, Pervoslobodskaya ulitsa, Vadkovskiy peresulok, 3-a. -- Advertisement.

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- 3 -

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